

Please ADD the following NEW claims:

15/17. (NEW) A power supply control device, comprising:

a first and second power supply input terminal to which a power supply is provided via an interface and adaptor, respectively; and

a switching unit to cut off power supplied by the first input terminal via the interface and activating a power supplied by the second input terminal via the adaptor if the input to said second input terminal is above a predetermined value even if the input to the second power supply input terminal via the interface is present.

16/18. (NEW) A method of controlling a power supply control device comprising:

providing a power supply to first and second power supply input terminals via an interface and adaptor, respectively; and

cutting off power supplied by the first input terminal via the interface and activating a power supplied by the second input terminal via the adaptor if the input to the second input terminal is above a predetermined value even if the input to the second power supply input terminal via the interface is present.

### REMARKS

Reconsideration and allowance of the above-referenced application are respectfully requested.

#### **I. STATUS OF THE CLAIMS**

Claims 2 and 8 are canceled herein.

Claims 1, 3, 5, 6, 7, 9-11, 15 and 16 are amended herein.

In view of the above, it is respectfully submitted that claims 1, 3-7, and 9-18 are currently pending and under consideration.

#### **II. OBJECTION TO THE DRAWINGS**

In items 3-6, on pages 2-3 of the Office Action, the Examiner objects to Figures 3 and 4

for not including reference numbers mentioned in the Detailed Description.

Attached hereto, is a "Letter to the Examiner Submitting Corrected Drawings" with corrections to Figures 3 and 4 indicated in red ink to overcome the drawing objections.

In view of the above, it is respectfully submitted that the objections are overcome.

### **III. CLAIM OBJECTIONS**

In item 7, on page 3 of the Office Action, claim 1 is "objected to." Claim 1 is amended herein to overcome the objection.

In view of the above, it is respectfully submitted that the objection is overcome.

### **IV. REJECTION OF CLAIMS 1-3, 5-9, 11-16 UNDER 35 U.S.C. 102(B) AS BEING CLEARLY ANTICIPATED BY YIN ET AL. (USP# 5,517,153)**

The present invention as recited, for example, in claim 1 as amended herein, relates to a power supply control device comprising "a switching unit cutting off power supplied by said first power supply input terminal via the interface, and activating a power supplied by said second power supply input terminal via the AC adaptor if the input to said second power supply input terminal is above the predetermined value even if the input to said second power supply input terminal via the interface is present."

Yin discloses a power supply isolation and switching circuit formed in a semiconductor structure which eliminates a parasitic diode effect. In column 3, lines 43-57, Yin discloses a switching circuit 40 which compares the voltage level of a primary power supply, such as the rechargeable battery 42 or the line voltage 43 against a reference voltage level. The primary power supply voltage  $V_{cc}$  can be either a large rechargeable battery or line voltage, and known circuits may be used to select which is provided as  $V_{cc}$ , depending on the availability of the line voltage. When the voltage of the primary power supply is higher than the reference voltage, the switching circuit connects the primary power supply to the system 32. Otherwise, the switching circuit 40 connects the back-up battery 44 to the system 32. When the primary power supply is providing power to the system 32, the switching circuit 40 prevents the back-up battery 44 from unnecessarily draining its current through the switching circuit 40.

However, the switching circuit 40 of Yin functions differently from the claimed switching unit as recited in claim 1 of the present application. Moreover, Yin is directed to a switching circuit in a system which has a rechargeable battery and a back-up battery, and the back-up

battery is supplied when the rechargeable battery voltage becomes lower than the reference voltage. Yin fails to teach a switching circuit configured such that supplied power is received with priority from an AC adaptor when the AC adaptor is present, even if an interface power supply is present. Therefore, Yin does not disclose the use of a switching unit that cuts off power supplied by a first power supply input terminal via an interface, and activating a power supplied by a second power supply input terminal via an AC adaptor if an input to the second power supply input terminal is above a predetermined value even if the input to the second power supply input terminal via the interface is present.

Thus, Yin does not disclose or suggest the features recited in claim 1 of the present application.

Similar to claim 1, independent claim 7 recites "a switch unit which cuts off a power supply from said first power supply input terminal via the interface and activates a power supply from said second power supply input terminal via the AC adaptor when the input from said second power supply input terminal is above the predetermined value according to said power supply input detection unit even if the input to said second power supply input terminal via the interface is present," which distinguishes over the cited prior art.

Claim 15 recites "a switching unit cutting off power supplied by said first input terminal via the interface and activating a power supplied by said second input terminal via the AC adaptor if the input to said second input terminal is above the predetermined value even if the input to said second power supply input terminal via the interface is present," which distinguishes over the cited prior art. Claim 16 recites "switching off power supplied by the first input terminal via the interface and activating a power supplied by the second input terminal via the AC adaptor if the input to the second input terminal is above the predetermined value even if the input to said second power supply input terminal via the interface is present," which distinguishes over the cited prior art.

Claims 3-6 and claims 9-14 depend from independent claim 1 and claim 7, respectively. Therefore, for at least the reasons that claims 1 and 7 distinguish over the cited prior art, it is respectfully submitted that claims 3-6 and 9-14 also distinguish over the cited prior art.

In view of the above, it is respectfully submitted that the rejection is overcome.



**V. NEW CLAIMS**

Claim 17 recites "a switching unit to cut off power supplied by the first input terminal via the interface and activating a power supplied by the second input terminal via the adaptor if the input to said second input terminal is above a predetermined value even if the input to the second power supply input terminal via the interface is present," which distinguishes over the cited prior art.

Claims 18 recites "cutting off power supplied by the first input terminal via the interface and activating a power supplied by the second input terminal via the adaptor if the input to the second input terminal is above a predetermined value even if the input to the second power supply input terminal via the interface is present," which distinguishes over the cited prior art.

In view of the above, it is respectfully submitted that new claims 17 and 18 patentably distinguish over the cited prior art.

**VI. CONCLUSION**

In view of the foregoing amendments and remarks, it is respectfully submitted that each of the claims patentably distinguishes over the prior art, and therefore defines allowable subject matter. A prompt and favorable reconsideration of the rejection along with an indication of allowability of all pending claims are therefore respectfully requested.

If there are any additional fees associated with filing of this Amendment, please charge the same to our Deposit Account No. 19-3935.

Respectfully submitted,

STAAS & HALSEY LLP

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**CERTIFICATE UNDER 37 CFR 1.8(a)**

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231

on December 30, 2002  
By: Derrick L. Fields  
Date: December 30, 2002

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**VERSION WITH MARKINGS TO SHOW CHANGES MADE**

**IN THE CLAIMS:**

Please CANCEL claims 2 and 8 without prejudice or disclaimer.

Please AMEND the claims in accordance with the following:

1. (ONCE AMENDED) A power supply control device comprising:
  - a first [and second] power supply input [terminals] terminal to which a power supply is provided via an interface;
  - a second power supply input terminal to which a power supply is provided via an AC adaptor;
  - a power supply input detection unit determining whether an input of said second power supply input terminal is above a predetermined value;
  - a switching unit cutting off power supplied by said first power supply input terminal via the interface, and activating a power supplied by said second power supply input terminal via the AC adaptor if the input to said second power supply input terminal is above the predetermined value even if the input to said second power supply input terminal via the interface is present; and
  - a power supply processor processing the power supplied by one of said first or second power supply input terminals.
2. (CANCELED)
3. (ONCE AMENDED) The power supply control device according to claim 1, wherein said switching unit [includes] comprises:
  - a switch activating or deactivating the power supplied by said first power supply input terminal[.]; and
  - a switch control unit driving the switch thereby cutting off the power supplied by said first power supply input terminal if the power supplied by said second terminal is greater than the predetermined value.
4. (AS UNAMENDED) The power supply control device according to claim 3, wherein a backflow prevention unit is disposed in a power supply lead from said first power

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supply input terminal and a power supply lead from said second power supply input terminal.

5. (ONCE AMENDED) The power supply control device according to claim 1, wherein said switching unit [is includes] comprises:

a first switch activating or deactivating the power supplied by said first power supply input terminal;

a second switch which activating or deactivating the power supplied by said second power supply input terminal; and

a switch control unit driving one of the first and second switches, thereby activating the power supplied by said first power supply input terminal when there is no power supplied by said second power supply input terminal according to a result from said power supply input detection unit, and driving the other of the first and second switches, thereby activating the power supplied by said second power supply input terminal when the power supplied by said second power supply input terminal is greater than the predetermined value.

6. (ONCE AMENDED) The power supply control device according to [Claim] claim 3, wherein the switch [includes] comprises a field effect transistor.

7. (ONCE AMENDED) An information processing device having an interface which receives or transmits information to and from another information processing device and a power supply control device to which a predetermined power supply is provided, comprising:

a first power supply input terminal to which a power supply is provided via said interface;

a second power supply input terminal to which a power supply is provided via [another power supply source other than the interface] an AC adaptor;

a power supply input detection unit which detects an instance when the input of said second power supply input terminal via the AC adaptor is above a predetermined value;

a switch unit which cuts off a power supply from said first power supply input terminal via the interface and activates a power supply from said second power supply input terminal via the AC adaptor when the input from said second power supply input terminal is above the predetermined value according to said power supply input detection unit even if the input to said second power supply input terminal via the interface is present; and

a power supply processor which, for the predetermined power supply, processes the power supply supplied via said first or second power supply input terminals.

8. (CANCELED)

9. (ONCE AMENDED) The information processing device according to claim 7, wherein said switch unit [includes] comprises:

a switch which activates or deactivates a power supply from said first power supply input terminal[.]; and

a switch control unit which drives the switch and thereby cuts off a power supply from said first power supply input terminal when there is a supply of more than the predetermined value from said second power supply input terminal according to a result from said power supply input detection unit.

10. (ONCE AMENDED) The information processing device according to [Claim] claim 9, wherein a backflow prevention unit is disposed in a power supply lead from said first power supply input terminal and said second power supply input terminal, respectively.

11. (TWICE AMENDED) The information processing device according to [Claim] claim 7, wherein said switch unit [includes] comprises:

a first switch which activates or deactivates the power supply from said first power supply input terminal;

a second switch which activates or deactivates the power supply from said second power supply input terminal; and

a switch control unit which drives one switch and thereby activates the power supply from said first power supply input terminal when there is no power supply from said second power supply input terminal according to a result from said power supply input detection unit, and which drives another switch and thereby activates the power supply from said second power supply input terminal when the power supplied by said second power supply input terminal is greater than the predetermined value.

12. (AS UNAMENDED) The information processing device according to claim 9, wherein said switch comprises a field effect transistor.

13. (AS UNAMENDED) The information processing device according to claim 7,

wherein the interface is a USB-specified or an IEEE-specified interface.

14. (AS UNAMENDED) The information processing device according to claim 7, wherein the information processing device is a storage device which processes a disk form, card form or tape form of a storage medium.

15. (ONCE AMENDED) A power supply control device comprising:  
a first [and second input terminals] power supply input terminal to which a power supply is provided via an interface;

a second power supply input terminal to which a power supply is provided via an AC adaptor;

a detection unit determining whether an input of said second power supply input terminal is above a predetermined value; and

a switching unit cutting off power supplied by said first input terminal via the interface and activating a power supplied by said second input terminal via the AC adaptor if the input to said second input terminal is above the predetermined value even if the input to said second power supply input terminal via the interface is present.

16. (ONCE AMENDED) A method of controlling a power supply control device comprising:

providing a power supply to first and second power supply input terminals via an interface and AC adaptor, respectively;

determining whether an input of [a] the second power supply input terminal via the AC adaptor is above a predetermined value; and

switching off power supplied by [a] the first input terminal via the interface and activating a power supplied by the second input terminal via the AC adaptor if the input to the second input terminal is above the predetermined value even if the input to said second power supply input terminal via the interface is present.

**Please ADD the following NEW claims:**

17. (NEW) A power supply control device, comprising:  
a first and second power supply input terminal to which a power supply is provided via an



interface and adaptor, respectively; and

a switching unit to cut off power supplied by the first input terminal via the interface and activating a power supplied by the second input terminal via the adaptor if the input to said second input terminal is above a predetermined value even if the input to the second power supply input terminal via the interface is present.

18. (NEW) A method of controlling a power supply control device comprising:  
providing a power supply to first and second power supply input terminals via an interface and adaptor, respectively; and

cutting off power supplied by the first input terminal via the interface and activating a power supplied by the second input terminal via the adaptor if the input to the second input terminal is above a predetermined value even if the input to the second power supply input terminal via the interface is present.